

# Santu Yadav — Aspiring Computer Engineer

Sankhamul, Patan, Lalitpur – Nepal

📱 +977-9765220680, +977-9813768889 • 📩 santuyadav732@gmail.com  
LinkedIn: santu-yadav-77b5b6138 • GitHub: yadavsantu

## Profile

MERN and Android Full-Stack (Kotlin + XML) developer. Currently working on an **Advanced Attendance System**, an AI/ML-enabled web-based attendance platform as a final-year engineering project.

Strong interest in AI/ML, web development, and Android application development using Kotlin. Currently upgrading cloud computing skills with AWS.

Open to collaboration opportunities as a **Junior Full-Stack Web Developer** or **Junior Android Developer**.

## Technical Skills

**Languages:** JavaScript, Kotlin, C, C++, Node.js, Express.js

**Web:** HTML, CSS, Tailwind CSS, React.js, Vue.js

**Databases:** MongoDB (Mongoose ORM), PostgreSQL, SQL

**Other:** OOP Concepts, UI Design, Git/GitHub, RESTful APIs, FastAPI

## Technical Skills

**Languages:** JavaScript, Kotlin, Node Js, Express js C, C++

**Web:** HTML, CSS, Tailwind CSS, React Js, Vue Js

**Databases:** MongoDB with Mongoose ORM SQL, PostgreSQL,

**Other:** OOP Concepts, UI Design, Git/GitHub, RESTful Api, FAST Api

## Projects

**Advanced Attendance System Using Facial Recognition (In Progress):** Major capstone project for the Computer Engineering degree, developed as a full-stack web application that automates attendance using a custom-trained CNN-based facial detection and recognition model.

### Key Contributions:

- Designed and developed role-based dashboards for **Admin**, **Teacher**, and **Student** users using **React** and **Tailwind CSS**, ensuring a responsive and intuitive user experience.
- Implemented and integrated backend RESTful APIs for core functionalities such as **Add Teacher**, **Add Classroom**, and attendance management using **Node.js** and **Express.js**.
- Architected the backend following the **MVC (Model–View–Controller)** design pattern to improve scalability, maintainability, and code organization.

**Smart Invoice:** A full-stack, web-based invoicing platform developed using the **MEVN stack**, designed to streamline invoice creation and management.

### Key Contributions:

- Led front-end development, building responsive and user-friendly interfaces for invoice generation and management.
- Implemented core invoicing logic and automated **PDF generation** using libraries such as **jsPDF**.
- Contributed to database migration and cloud deployment by transitioning data storage to **MongoDB Atlas**.

**Real-Time Accident Reporting System:** A real-time, life-saving emergency reporting platform conceptualized to address the lack of immediate accident response systems in Nepal.

### Key Contributions:

- Researched, designed, and developed the solution during a college hackathon to enable rapid accident reporting by bystanders.

- Integrated **Google Maps APIs** (Maps, Places, Distance Matrix) to identify and rank the nearest hospitals, ambulances, and police stations.
- Implemented **Twilio WhatsApp API** to send real-time alerts with precise location and incident details to emergency services.

**CEE Rank Predictor:** An AI-powered, web-based rank prediction system for medical entrance aspirants, built using a custom-trained machine learning model.

**Key Contributions:**

- Trained a custom AI/ML model using real historical datasets from previous years' **Common Entrance Examinations (CEE)**.
- Developed a web interface to provide rank predictions and insights based on candidate performance.

**Inventory Management System:** A Windows-based desktop application developed in **C#** for managing inventory records and operations.

**Key Contributions:**

- Designed and implemented intuitive UI components to improve usability and data visualization.

**Student Management System:** An individual full-stack web application built using the **MEVN stack**, aimed at managing student records and academic workflows.

**Status:** Currently under development.

## Achievements

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**ISTN Hackathon 2025 Winner:** Winner of the 24-hour ISTN Hackathon 2025, organized by IT Skills Training Nepal.

**Participated in The Cosmos Hackathon as Mentor:** Organized by ICT CLUB cosmos college

**Participated in Ambition Hack Fest 2025:** A 48 hours national level hackathon organized by Ambition College, Mid-Baneshwor

**GPA: 3.83 :** In 1st semester (Pokhara University)

**University Scholarship Holder:** Got fully-funded scholarship from Pokhara University.

## References

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Er. Ajaya Adhikari  
HOD, Department of ICT  
Cosmos College of Management and Technology